



Date: October 1, 2015

To: Baron Burke
Richard Hall

From: Bob Bliss, CIH, Region 10 Industrial Hygienist

Subject: Fleet Management Building Asbestos Survey Report

In preparation for potential projects within the Auburn Complex Fleet Management Building, building material samples were collected.

The building was constructed in 2000. The building is constructed on slab on grade concrete with cement sided shingles. The roof is asphalt tab construction with wooden trusses. The interior is drywall construction with suspended ceiling tiles and drywall ceilings at certain locations. The flooring is primarily carpet tile and some sheet vinyl.

Building materials which were sampled included:

- Ceiling Tiles
- Gypsum wallboard and mud
- Cove base and mastic
- Leveling compound
- Carpet tile and mastic
- Sheet vinyl and mastic
- HVAC Mud
- Exterior Siding

The sample locations are identified on the attached Floor Location Maps. In summary none of the building materials used in the construction of the building contain asbestos.

All samples were collected by Bob Bliss, CIH (AHERA Building Inspector). The samples were submitted to the NVL Laboratory for polarized light microscopy (PLM) analysis. The laboratory was asked to examine the matrix and layers for the presence of asbestos.

The locations sampled were:

- AFMB-SVO1 – sheet vinyl in kitchenette area
- AFMB-CB02 - Black cove base and mastic
- AFMB-GWB03 – Gypsum wall board
- AFMB-CT04 – Carpet Tile and mastic
- AFMB-GWB05 – Gypsum wall board



U.S. General Services Administration

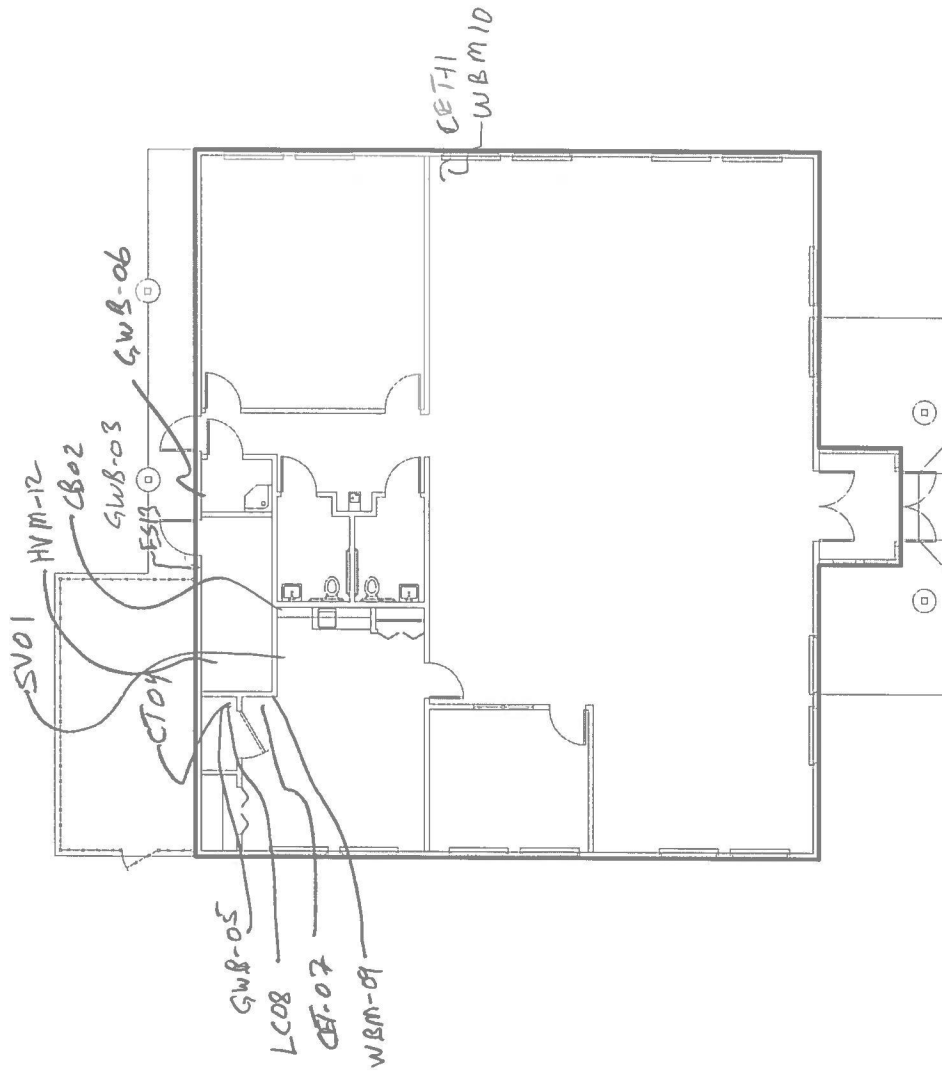
AFMB-GWB06 – Gypsum wall board
AFMB-CET07 – Ceiling tile
AFMB-LC08 – Leveling floor compound
AFMB-WBM09 – Wallboard mud
AFMB-WBM10 - Wallboard mud with paint
AFMB-CET11 – Ceiling Tile
AFMB-HVM12 - HVAC mud
AFMB-ES12 – Exterior siding

The samples were collected in line with EPA requirements under AHERA. The location of each of the samples is identified in the attachment. Each location was selected at a random location within the office space.

Attachments:

Sample Location Drawing
NVL Laboratory Report

400 15th St SW
Auburn, WA
98001



Ceiling Tile - CE
 Wall board and - WBM
 Levelling compound - LC
 Carpet Tile - CT
 Sheet vinyl - SV
 HVAC mud - HVM
 Exterior siding - ES

July 28, 2015

Bob Bliss
GSA
400 15th St. SW
Auburn, WA 98001



Laboratory | Management | Training

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 1513477.00

Client Project: Fleet Bldg.
Location: Auburn, WA

Dear Mr. Bliss,

Enclosed please find test results for the 13 sample(s) submitted to our laboratory for analysis on 7/24/2015.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with both **EPA 600/M4-82-020**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116** Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

A handwritten signature in black ink, appearing to read "Nick Ly".

Nick Ly, Laboratory Technical Director



Lab Code: 102063-0

1.888.NVL.LABS
1.888.(685.5227)
www.nvllabs.com

Enc.: Sample Results

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
p 206.547.0100 | f 206.634.1936

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: GSA

Address: 400 15th St. SW
Auburn, WA 98001

Attention: Mr. Bob Bliss

Project Location: Auburn, WA

Batch #: 1513477.00

Client Project #: Fleet Bldg.

Date Received: 7/24/2015

Samples Received: 13

Samples Analyzed: 13

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Lab ID: 15074088 Client Sample #: AFMB-SV01

Location: Auburn, WA

Layer 1 of 3 Description: Tan/gray sheet vinyl

Non-Fibrous Materials:
Vinyl/Binder, Synthetic foam

Other Fibrous Materials:%
None Detected ND

Asbestos Type: %
None Detected ND

Layer 2 of 3 Description: Tan mastic

Non-Fibrous Materials:
Mastic/Binder

Other Fibrous Materials:%
Cellulose 2%

Asbestos Type: %
None Detected ND

Layer 3 of 3 Description: Gray thin brittle material

Non-Fibrous Materials:
Binder/Filler, Mineral grains

Other Fibrous Materials:%
Cellulose 1%

Asbestos Type: %
None Detected ND

Lab ID: 15074089 Client Sample #: AFMB-CB02

Location: Auburn, WA

Layer 1 of 3 Description: Black rubbery material

Non-Fibrous Materials:
Rubber/Binder

Other Fibrous Materials:%
None Detected ND

Asbestos Type: %
None Detected ND

Layer 2 of 3 Description: White mastic

Non-Fibrous Materials:
Mastic/Binder

Other Fibrous Materials:%
Cellulose 1%

Asbestos Type: %
None Detected ND

Layer 3 of 3 Description: White compacted powdery material with paint

Non-Fibrous Materials:
Calcareous particles, Paint

Other Fibrous Materials:%
Cellulose 2%

Asbestos Type: %
None Detected ND

Lab ID: 15074090 Client Sample #: AFMB-GWB-03

Location: Auburn, WA

Sampled by: Client

Analyzed by: Fiona Chui

Reviewed by: Nick Ly

Date: 07/28/2015

Date: 07/28/2015



Nick Ly, Laboratory Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: GSA

Address: 400 15th St. SW
Auburn, WA 98001

Attention: Mr. Bob Bliss

Project Location: Auburn, WA

Batch #: 1513477.00

Client Project #: Fleet Bldg.

Date Received: 7/24/2015

Samples Received: 13

Samples Analyzed: 13

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 1 of 2	Description: White compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Calcareous particles, Paint	Cellulose 2%		None Detected ND
Layer 2 of 2	Description: Pink chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Gypsum/Binder, Binder/Filler	Cellulose 35%		None Detected ND

Lab ID: 15074091 **Client Sample #: AFMB-CT04**

Location: Auburn, WA

Layer 1 of 2	Description: Multicolored woven fibrous material with mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Mastic/Binder	Synthetic fibers 84%		None Detected ND
		Cellulose 3%		
Layer 2 of 2	Description: Black/gray foamy material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Synthetic foam	Glass fibers 20%		None Detected ND

Lab ID: 15074092 **Client Sample #: AFMB-GWB05**

Location: Auburn, WA

Layer 1 of 2	Description: White bumpy compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Calcareous particles, Paint	Cellulose 2%		None Detected ND
Layer 2 of 2	Description: Pink chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Gypsum/Binder, Binder/Filler	Cellulose 34%		None Detected ND
		Glass fibers 15%		

Sampled by: Client

Analyzed by: Fiona Chui

Reviewed by: Nick Ly

Date: 07/28/2015

Date: 07/28/2015


Nick Ly, Laboratory Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: GSA

Address: 400 15th St. SW
Auburn, WA 98001

Attention: Mr. Bob Bliss

Project Location: Auburn, WA

Batch #: 1513477.00

Client Project #: Fleet Bldg.

Date Received: 7/24/2015

Samples Received: 13

Samples Analyzed: 13

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Lab ID: 15074093 Client Sample #: AFMB-GWB06

Location: Auburn, WA

Layer 1 of 2 Description: White bumpy compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %
Calcareous particles, Paint	Cellulose 3%

Asbestos Type: %
None Detected ND

Layer 2 of 2 Description: White chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials: %
Gypsum/Binder, Binder/Filler	Cellulose 35%
	Glass fibers 16%

Asbestos Type: %
None Detected ND

Lab ID: 15074094 Client Sample #: AFMB-CET07

Location: Auburn, WA

Layer 1 of 1 Description: Gray compressed fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %
Binder/Filler, Perlite, Glass beads	Cellulose 42%
Paint	Glass fibers 21%

Asbestos Type: %
None Detected ND

Lab ID: 15074095 Client Sample #: AFMB-LC08

Location: Auburn, WA

Layer 1 of 1 Description: Trace gray brittle material with paint and mastic

Non-Fibrous Materials:	Other Fibrous Materials: %
Binder/Filler, Mineral grains, Mastic/Binder	Cellulose 3%
Paint	

Asbestos Type: %
None Detected ND

Lab ID: 15074096 Client Sample #: AFMB-WBM09

Location: Auburn, WA

Sampled by: Client

Analyzed by: Fiona Chui

Reviewed by: Nick Ly

Date: 07/28/2015

Date: 07/28/2015


Nick Ly, Laboratory Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: GSA

Address: 400 15th St. SW
Auburn, WA 98001

Attention: Mr. Bob Bliss

Project Location: Auburn, WA

Batch #: 1513477.00

Client Project #: Fleet Bldg.

Date Received: 7/24/2015

Samples Received: 13

Samples Analyzed: 13

Method: EPA/600/R-93/116
& EPA/600/M4-82-020

Layer 1 of 2	Description: Light beige compacted powdery material with trace paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Calcareous particles, Paint	Cellulose 2%		None Detected ND
Layer 2 of 2	Description: Beige chalky material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Gypsum/Binder	Cellulose 2%		None Detected ND
		Glass fibers 5%		

Lab ID: 15074097 **Client Sample #: AFMB-WBM10**

Location: Auburn, WA

Layer 1 of 1	Description: Light beige compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Ceramic/Binder, Paint	Cellulose 2%		None Detected ND

Lab ID: 15074098 **Client Sample #: AFMB-CET11**

Location: Auburn, WA

Layer 1 of 1	Description: Gray compressed fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Perlite, Glass beads	Cellulose 43%		None Detected ND
		Glass fibers 21%		

Lab ID: 15074099 **Client Sample #: AFMB-HVM12**

Location: Auburn, WA

Layer 1 of 1	Description: White elastic material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler	Cellulose 3%		None Detected ND

Sampled by: Client

Analyzed by: Fiona Chui

Reviewed by: Nick Ly

Date: 07/28/2015

Date: 07/28/2015



Nick Ly, Laboratory Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: GSA

Address: 400 15th St. SW
Auburn, WA 98001**Attention: Mr. Bob Bliss**

Project Location: Auburn, WA

Batch #: 1513477.00

Client Project #: Fleet Bldg.

Date Received: 7/24/2015

Samples Received: 13

Samples Analyzed: 13

Method: EPA/600/R-93/116
& EPA/600/M4-82-020**Lab ID: 15074100****Client Sample #: AFMB-ES12**

Location: Auburn, WA

Layer 1 of 1**Description:** Beige/tan compressed fibrous material with paint

Non-Fibrous Materials:

Binder/Filler, Paint

Other Fibrous Materials: %

Cellulose 87%

Asbestos Type: %**None Detected ND****Sampled by:** Client**Analyzed by:** Fiona Chui**Reviewed by:** Nick Ly**Date:** 07/28/2015**Date:** 07/28/2015

Nick Ly, Laboratory Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Company GSA
Address 400 15th St. SW
 Auburn, WA 98001
Project Manager Mr. Bob Bliss
Phone (253) 397-6862
NVL Batch Number 1513477.00
TAT 2 Days **AH** No
Rush TAT
Due Date 7/28/2015 **Time** 12:30 PM
Email robert.bliss@gsa.gov
Fax

Project Name/Number: Fleet Bldg. **Project Location:** Auburn, WA

Subcategory PLM Bulk

Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 13

Rush Samples

	Lab ID	Sample ID	Description	A/R
1	15074088	AFMB-SV01		A
2	15074089	AFMB-CB02		A
3	15074090	AFMB-GWB-03		A
4	15074091	AFMB-CT04		A
5	15074092	AFMB-GWB05		A
6	15074093	AFMB-GWB06		A
7	15074094	AFMB-CET07		A
8	15074095	AFMB-LC08		A
9	15074096	AFMB-WBM09		A
10	15074097	AFMB-WBM10		A
11	15074098	AFMB-CET11		A
12	15074099	AFMB-HVM12		A
13	15074100	AFMB-ES12		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Client				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Justin Shearer		NVL	7/24/15	1230
Analyzed by	Fiona Chui		NVL	7/28/15	7:10 PM
Results Called by					
<input type="checkbox"/> Faxed <input type="checkbox"/> Emailed					

Special Instructions:

Date: 7/24/2015

Time: 1:20 PM

Entered By: Fatima Khan



ASBESTOS CHAIN OF CUSTODY

1513477

Turn Around Time

- ☐ 1 Hour ☒ 2 Hours ☐ 4 Days
☐ 2 Hours ☒ 2 Days ☐ 5 Days
☐ 4 Hours ☐ 3 Days ☐ 10 Days

Please call for TAT less than 24 Hours

Laboratory | Management | Training

Company **GSA**
Address **400 15th St SW**
Auburn, WA 98001
Phone _____

Project Manager **Bob Bliss**
Cell **(253) 397 - 6862**
Email **robert.bliss@gsa.gov**
Fax () - _____

Project Name/Number **Fleet Bldg** Project Location **Auburn, WA**

- ☐ PCM Air (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II Modified)
☒ PLM (EPA 600/R-93-116) ☐ EPA 400 Points (600/R-93-116) ☐ EPA 1000Points (600/R-93-116)
☐ PLM Gravimetry (600/R-93-116) ☐ Asbestos in Vermiculite (EPA 600/R-04/004) ☐ Asbestos in Sediment (EPA 1900 Points)
☐ Asbestos Friable/Non-Friable (EPA 600/R-93/116) ☐ Other _____

Reporting Instructions _____

☐ Call () - _____ ☐ Fax () - _____ ☒ Email **robert.bliss@gsa.gov**

Total Number of Samples 12

	Sample ID	Description	A/R
1	AFMB-SV01	Sheet Vinyl	
2	AFMB-CB02	Black cove base and mastic	
3	AFMB-GWB-03	Wallboard	
4	AFMB-CT04	Carpet Tile	
5	AFMB-GWB05	Wallboard	
6	AFMB-GWB06	Wallboard	
7	AFMB-CET07	Ceiling tile	
8	AFMB-LC08	Leveling compound with mastic	
9	AFMB-WBM09	Wallboard mud	
10	AFMB-WBM10	Wallboard mud with paint	
11	AFMB-CET11	Ceiling tile	
12	AFMB-HVM12	HVAC mud	
13	AFMB-ES12	Exterior siding	
14			
15			

	Print Name	Signature	Company	Date	Time
Sampled by	Bob Bliss		GSA	7-21-15	1200
Relinquish by	Bob Bliss		GSA	7-24-15	1230

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	J. Shearer		NVL	7/24/15	1230
Analyzed by					
Called by					
Faxed/Email by					